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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/853,370	05/11/2001	Donald S. Gardner	42390P11265	7273	
8791	7590 02/18/2004		EXAM	EXAMINER	
	SOKOLOFF TAYLOF	NGUYEN, TUYEN T			
12400 WILSHIRE BOULEVARD, SEVENTH FLOOR LOS ANGELES, CA 90025			ART UNIT	PAPER NUMBER	
	•		2832		

DATE MAILED: 02/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·							
		Application No.	Applicant(s)				
		09/853,370	GARDNER, DONAL	GARDNER, DONALD S.			
Office Action	n Summary	Examiner	Art Unit				
		TUYEN T NGUYEN	2832				
The MAILING DAT Period for Reply	E of this communication ap	pears n the cover sheet with	the correspondence add	ress			
THE MAILING DATE OF - Extensions of time may be availa after SIX (6) MONTHS from the r - If the period for reply specified at - If NO period for reply is specified - Failure to reply within the set or a	THIS COMMUNICATION. ble under the provisions of 37 CFR 1. nailing date of this communication. sove is less than thirty (30) days, a rep above, the maximum statutory period extended period for reply will, by statut ater than three months after the mailing	Y IS SET TO EXPIRE 3 MO 136(a). In no event, however, may a repuly within the statutory minimum of thirty will apply and will expire SIX (6) MONTI e, cause the application to become ABA and date of this communication, even if times.	oly be timely filed (30) days will be considered timely. HS from the mailing date of this com NDONED (35 U.S.C. § 133).	munication.			
Status							
1)⊠ Responsive to com	munication(s) filed on 04 A	<u>Nugust 2003</u> .					
2a) ☐ This action is FINA	L. 2b)⊠ Thi	s action is non-final.					
3) Since this applicati	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordan	ce with the practice under	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
Disposition of Claims							
	Claim(s) <u>1-6,11-17,20-25 and 31-35</u> is/are pending in the application. 4a) Of the above claim(s) <u>12-15 and 31-34</u> is/are withdrawn from consideration.						
5) Claim(s) is/a							
· <u> </u>	∑ Claim(s) <u>1-6,11,16,20-25 and 35</u> is/are rejected.						
`	Claim(s) is/are objected to.						
8) Claim(s) are	_						
Application Papers							
9) ☐ The specification is	objected to by the Examine	er.					
·	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not re-	quest that any objection to the	drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).				
Replacement drawing	g sheet(s) including the correc	tion is required if the drawing(s) is objected to. See 37 CFR	l 1.121(d).			
11) ☐ The oath or declara	tion is objected to by the E	xaminer. Note the attached	Office Action or form PTC)-152.			
Priority under 35 U.S.C. § 1	19						
a) All b) Some 1. Certified cop 2. Certified cop	* c) None of: ies of the priority documen ies of the priority documen	ts have been received. ts have been received in Apportly documents have been re	plication No	tage			
application fr	om the International Burea	u (PCT Rule 17.2(a)).		-			
* See the attached de	tailed Office action for a list	of the certified copies not re	eceived.				
Attachment(s)							
1) Notice of References Cited (F			mmary (PTO-413)				
 Notice of Draftsperson's Pate Information Disclosure Staten Paper No(s)/Mail Date 12/8/0. 			Mail Date ormal Patent Application (PTO-1 .·	152)			

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 11 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 11, applicant should clarify the structure intended by "the second conductor over the substrate and over the second conductor."

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 6, 11, 16-17, 20, 25 and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mizoguchi et al. [US 6,404,317] in view of Mizoguchi et al. [US 6,121,852].

Mizoguchi et al. '317 discloses a planar magnetic transformer [figures 21-24] comprising:

- a substrate [10];
- a first conductor [40A] mounted over the substrate defining a generally spiral-shaped signal path having at least one turn;
- a second conductor [40B] mounted over the substrate defining generally spiral-shaped signal path having at least one turn, wherein the second conductor lies over the first conductor;

- a first magnetic layer [30A] disposed between the substrate and the first conductor; and
- a second magnetic layer [30B] disposed over both the first and second conductors.

Mizoguchi et al. '317 discloses the instant claimed invention except for a magnetic layer being disposed between the all of the spiral shape signal path of the first and second conductors.

Mizoguchi et al. '852 discloses an inductor device [figure 13] formed on an substrate [27] including a magnetic layer [22] disposed two conductor layers [24, 25].

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to use the magnetic layer arrangement of Mizoguchi et al. '852 in Mizoguchi et al. '317 for the purpose of controlling the magnetic flux.

Regarding claims 20, 25-26 and 35, the method steps claimed would have been inherent in the product structure.

Claims 2-5, and 21-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mizoguchi et al. '317 in view of Mizoguchi et al. '852, as applied to claims 1, 6, 7, 11, 16-17, 20, 25-26 and 35, 36 and 38 above, and further in view of Fessant et al. [IEEE paper, copyrighted 1993].

Mizoguchi et al., as modified, discloses the instant claimed invention except for the specific material use for the magnetic layer.

Fessant et al. discloses the use of amorphous CoZr thin films.

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to use the materials shown by Fessant et al. for the magnetic layers of Mizoguchi et al., as modified, for the purpose of providing low coercitivity.

Regarding claims 21-24, the method steps claimed would have been inherent in the product structure.

Applicant's arguments with respect to claims 1-6, 11, 16-17, 20-25, have been

considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to TUYEN T NGUYEN whose telephone number is 703-308-0821.

The examiner can normally be reached on M-F 8:30-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, ELVIN ENAD can be reached on 703-308-7619. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TTN TIN

Tayla Nguyla